Following these instructions accurately and completely will provide consistent and correct installation procedure for the DSD EDGE.

1 APPLICABLE DOCUMENTS

- DSD EDGE User Manual
- DSD EDGE Service Manual

2 INSTALLATION KIT

The DSD EDGE reprocessor is provided with an installation kit to adapt the unit to building supplies. The following items, included in the kit, are used during installation.

ITEM	DESCRIPTION
1	3/8” Water Regulator
2	Pressure Gauge
3	3/8” plug
4	Pre-filtration system
5	1 micron filter
6	0.45 micron filter
7	Filter wrench
8	1 inch drain hose
9	1 inch drain elbow
10	Pre-filter installation hose kit

3 WATER SUPPLY (POTABLE) AND PRE-FILTERS OVERVIEW

- Below is an overview of the water supply and pre-filtration system connections. For detailed instructions, please refer to the instructions included in the pre-filtration system. Dimensions of the water pre-filtration system are shown in Figure 1.
- An incoming water shut-off valve must be installed upstream of the pre-filter system. The valve must be easily accessible to the user to shut off the water supply when not in use. Ensure the incoming water pressure provides a flow rate of 3.2 gal/min (12 liters/min) at a minimum pressure of 40 PSI (2.75 BAR), but not more than 90 PSI (6.2 BAR).
- A customer supplied water temperature mixing valve must be installed before the pre-filter system. The mixing valve must be able to maintain a water temperature of 95°F ± 4°F, (35°C ± 2°C).
- Install the incoming water pre-filter, supplied with the reprocessor. The user must have an easy access to the filters. There should be enough room below the filter assembly to be able to change the filters.
- Install the external water regulator between the outlet of the pre-filter assembly and the DSD EDGE.
- Attach one end of the stainless steel water hose to the regulator. Attach other end to the water inlet of the DSD EDGE. The installation kit ships with hardware that should fit most installations. If not, the hardware may be sourced locally.
- Mount the filter assembly on the wall where the filters can be easily changed and the gauge checked.

NOTE: Use 1/2-inch piping for all water line plumbing.

NOTE: This unit is piped and assembled as shown with the outlet on the right side and gauge #1 (incoming water pressure) on the left (figure 1).

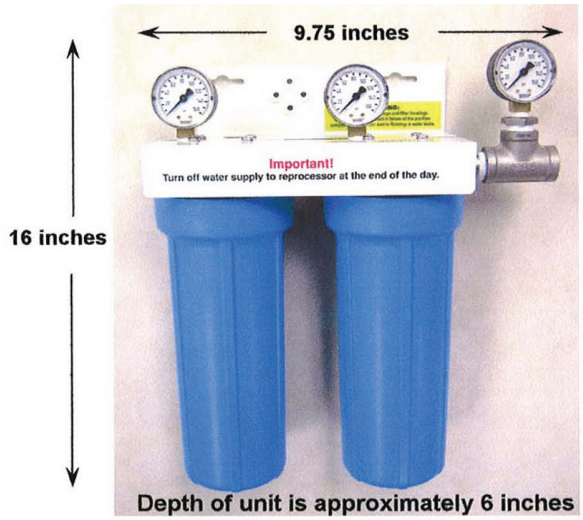
9.75 inches
16 inches
Important!
Turn off water supply to reprocessor at the end of the day.
Depth of unit is approximately 6 inches

FIGURE 1. FILTRATION SYSTEM DIMENSIONS

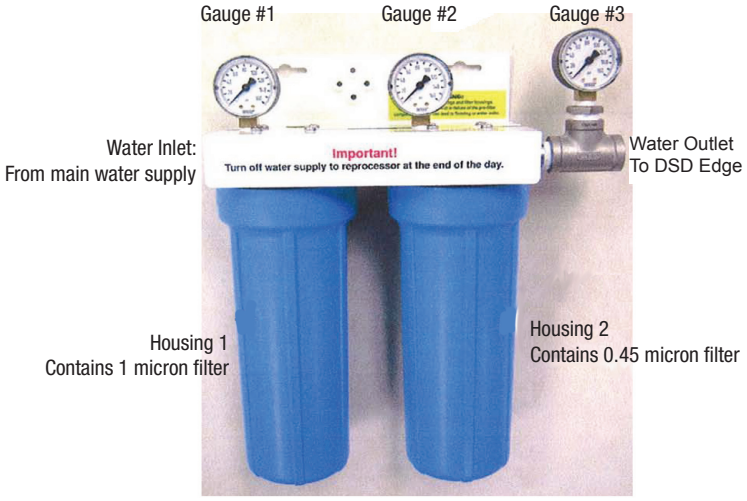

FIGURE 2. FILTRATION SYSTEM

WARNING: DO NOT over-tighten filter housings (hand-tighten only). Over tightening will result in failure of the pre-filter components, which can lead to flooding or water leaks. Plumbing fittings should be hand tightened followed by one complete turn with the appropriate wrench.

NOTE: If the water supply line is brought in from the opposite side of the system inlet, run it behind the machine close to the floor so that the disinfector can be flush against the wall with the water line running through the base recess.

- Install the regulator (supplied in DSD EDGE accessory kit) between the filter assembly and the DSD EDGE.

4 REGULATOR SET-UP

- The external regulator water pressure is set between 35-40 PSI (2.40 – 2.75 BAR). This adjustment is performed during the flushing cycle after the unit is ready for cycle verification.

WARNING: DO NOT over-tighten water filter housings (hand-tighten only). Over tightening will result in failure of the pre-filter components, which can lead to flooding or water leaks. Plumbing fittings should be hand tightened followed by one complete turn with the appropriate wrench.

The accumulation of particulates in a filter can cause the water pressure to drop below the minimum required level. This can occur every two to three months, depending on water quality. A pressure differential of 5 PSI (0.35 BAR) or greater between gauges on each side of a filter indicates a need for replacement. For example, if the pressure on gauge #2 is 35 PSI (2.41 BAR) when the pressure on gauge #1 is 40 PSI (2.75 BAR), a filter change is required.

5 UNIT SET-UP

Move the reprocessor to the installation location before removing the protective packaging material. If this is not possible, use a hand truck or moving dolly and ensure the reprocessor is not damaged. The reprocessor must be installed on a level surface or be adjusted to level. Adjust the leveling pads after unpacking the reprocessor.

6 SYSTEM DRAIN

Connect the 1" drain elbow to the rear drain of the DSD EDGE. The elbow threads require Teflon tape.

Connect the drain tube provided with the reprocessor (36 inches of 1-inch diameter clear tubing) to the drain elbow. The drain tube must have 3 inches of drop (7.5cm) or greater over the 36" (91cm) length. Consult your maintenance department for multiple reprocessor installation.

CAUTION: The reprocessor drain relies on gravity flow. There must be no low spots or loops in the drain line. Fluid trapped in the drain line will interfere with free drainage and reprocessor function.

FIGURE 3. SAMPLE OF A DRAIN INSTALLATION

7 ELECTRICAL

- Plug cord into outlet. The outlet should be placed within operators reach for easy unplugging.

CAUTION: The reprocessor does not have an ON/OFF switch. Be sure the reprocessor is positioned so that the power cord or main circuit breaker is accessible at all times.

WARNING: The reprocessor must be protectively grounded.

CAUTION: Operating the reprocessor without a hook-up fitting may blow the slow blow fuse.

8 FINAL TESTS

To be sure that the system is ready to operate, perform a trial run with water as outlined below. Use the Restrictor Hook-up to simulate an endoscope.

Three full cycles must be completed without an alarm.

- Install high-level disinfectant Part A and Part B containers as described in User manual.
- Press the START button.
- Check the flow through the tubing during the disinfect, air, and rinse cycle.
- Check if incoming water pressure regulator provides a flow rate of 3.2GPM. (12 liters/min.) at a pressure of 35-40 PSI (2.4-2.75 BAR). ***Adjust the External Water Regulator during the Flush Cycle.***
- Adjust the internal regulators to 18-20 PSI (1.25-1.38 BAR) during the Flush Cycle.
- Verify the unit is level. Watch the rear basin overflow during the HLD cycle. Disinfectant should not flow over this drain.
  - If fluid escapes over the drain during the HLD cycle the unit is not level. Adjust the screw pads and re-test.
- Verify the cycle completes with no errors.
- Verify there is no fluid on the floating lid after a cycle.
- Verify there are no leaks in the reprocessor.
- Perform a water line disinfection procedure using the restrictors as described in the user manual.

9 INSTALLATION VERIFICATION

The Installation Verification form is used to document that the reprocessor has been properly installed, tested and is ready for operation.

Medivators Website “Resource Center”

Go to: www.minntech.com/medivators, Select “Resource Center” and “User Library” for detailed user guides and hook-up matrices, report forms and logs, and product bulletins

Medivators Customer and Technical Support:1-800-444-4729

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